

Remarks

I. The Amendments

The specification of the application was amended by deleting the sequence listing originally filed and entering a substitute sequence listing.

In addition, pages 7 and 8 of the application, were amended to include sequence identification numbers for DNA sequences.

II. Submission of Computer Readable Copy of Sequence Listing

Applicants are including herewith a 3.5 inch computer readable diskette which contains a copy of the newly submitted Sequence Listing in ASCII text.

Statements to Comply With 37 C.F.R. § 1.821 and 1.825

In compliance with 37 C.F.R. § 1.821(f) and (g), a separate Statement to support filing and submission in accordance with 37 C.F.R. §§ 1.821-1.825 is also submitted herewith.

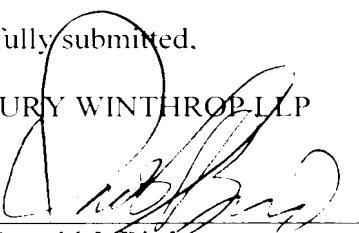
Conclusion

In light of the present amendments and enclosures, Applicants respectfully submit that all Sequence Listing requirements have now been complied with. It is therefore respectfully submitted that this application is now in condition for substantive review.

If, in the opinion of the Examiner, a phone call may help to expedite the prosecution of this application, the Examiner is invited to call Applicants' undersigned attorney at (703) 905-2018.

Respectfully submitted,

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Appendix

Version with Markings to Show Changes Made

The specification of the application was amended to enter sequence identification numbers. The changes that were made are shown below with the underlined words indicating text that was added.

On page 7 of the specification, lines 29-31 were amended as follows:

Figure 1 shows the predicted amino acid sequence (SEQ ID NO:2) of ZGGBP1. The C2 domain is indicated by carets, the four WW domains are indicated by asterisks and the Hect domain is indicated by underlining.

On page 8 of the specification, lines 1-14 were amended as follows:

Figure 2 shows a comparison of amino acid sequences of human ned4 Swissprot entry P46934 (SEQ ID NO:6) and ZGGBP1 (SEQ ID NO:2)

Figure 3 shows a Northern blot analysis of various human tissues probed with ZGGBP1.

Figure 4 shows a comparison of the nucleic acid sequences of human (SEQ ID NO:7) and mouse (SEQ ID NO:3) ZZGBP1. The mouse sequence is a partial cDNA which spans the C-terminal portion of the human protein coding region.

Figure 5 shows a comparison of the nucleic acid sequences for ZGGBP1 (SEQ ID NO:1) and Pub3 (SEQ ID NO:8)

Figure 6 shows a polymorphism located at position 3554 of the cDNA sequence (SEQ ID NO:10) (SEQ ID NO:11)

Figure 7 shows a polymorphism located at position 4828 of the cDNA sequence (SEQ ID NO:12) (SEQ ID NO:13)

Figure 8 shows a polymorphism located in an intronic sequence (SEQ ID NO:14) (SEQ ID NO:15) derived from a BAC containing ZGGBP1

Figure 9 shows a variable number of tetranucleotide repeats located within an intronic sequence (SEQ ID NO:9) from ZGGBP1

Figure 10 shows an insertion at position 4032 of the cDNA sequence (SEQ ID NO:16) (SEQ ID NO:17)